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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 16.5271 Seconds  
(without alignments)  
680.911 Million cell updates/sec

Title: US-09-622-613B-2  
Perfect score: 578  
Sequence: 1 QDWLTFQKKHLTNRDVCN.....TFVCYCEQAPVHFVGCHC 104

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_AA:\*

- 1: /cgn2-6/ptodata/1/pubpaa/US08\_NEM\_PUB.pep:\*
- 2: /cgn2-6/ptodata/1/pubpaa/PCF\_NEM\_PUB.pep:\*
- 3: /cgn2-6/ptodata/1/pubpaa/US06\_NEM\_PUB.pep:\*
- 4: /cgn2-6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2-6/ptodata/1/pubpaa/US07\_NEM\_PUB.pep:\*
- 6: /cgn2-6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
- 7: /cgn2-6/ptodata/1/pubpaa/PCUTS\_PUBCOMB.pep:\*
- 8: /cgn2-6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2-6/ptodata/1/pubpaa/US09\_NEM\_PUB.pep:\*
- 10: /cgn2-6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*
- 11: /cgn2-6/ptodata/1/pubpaa/US10\_NEM\_PUB.pep:\*
- 12: /cgn2-6/ptodata/1/pubpaa/US10\_PUBCOMB.pep:\*
- 13: /cgn2-6/ptodata/1/pubpaa/US60\_NEM\_PUB.pep:\*
- 14: /cgn2-6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	578	100.0	105	9	US-09-948-391A-6
2	578	100.0	127	9	US-09-948-391A-28
3	573	99.1	104	9	US-09-948-391A-11
4	573	99.1	105	9	US-09-948-391A-13
5	569	98.4	104	9	US-09-948-391A-2
6	569	98.4	104	9	US-09-948-391A-4
7	560	96.9	105	9	US-09-948-391A-8
8	560	96.9	111	9	US-09-948-391A-9
9	556	96.2	105	9	US-10-153-882-2
10	551	95.3	104	9	US-09-986-119-1
11	445	77.0	83	9	US-09-986-119-3
12	281.5	48.7	110	9	US-09-948-391A-15
13	277.5	48.0	111	9	US-09-948-391A-21
14	277.5	48.0	117	9	US-09-948-391A-22
15	276.5	47.8	110	9	US-09-948-391A-24
16	276.5	47.8	111	9	US-09-948-391A-26
17	275.5	47.7	111	9	US-09-948-391A-17
18	271.5	47.0	110	9	US-09-948-391A-19
19	157.5	27.2	169	12	US-10-016-447-2

20	128.5	22.2	124	12	US-10-016-447-5	Sequence 5, Appl1
21	113	19.6	147	10	US-09-286-240-6	Sequence 6, Appl1
22	113	19.6	147	10	US-09-863-777-2	Sequence 2, Appl1
23	113	19.6	147	10	US-09-731-872-254	Sequence 254, App
24	112	19.4	124	9	US-09-981-286A-8	Sequence 6, Appl1
25	99.5	17.2	131	12	US-10-016-447-6	Sequence 108, App
26	89.5	15.5	156	9	US-09-796-753-102	Sequence 112, App
27	89.5	15.5	156	9	US-09-796-753-118	Sequence 60, Appl
28	89.5	15.5	156	9	US-10-245-103-60	Sequence 60, Appl
29	89.5	15.5	156	9	US-10-245-107-60	Sequence 60, Appl
30	89.5	15.5	156	9	US-10-245-143-60	Sequence 60, Appl
31	89.5	15.5	156	9	US-10-245-771-60	Sequence 60, Appl
32	89.5	15.5	156	9	US-10-245-851-60	Sequence 60, Appl
33	89.5	15.5	156	9	US-10-245-883-60	Sequence 60, Appl
34	89.5	15.5	156	9	US-10-237-533-60	Sequence 60, Appl
35	89.5	15.5	156	9	US-10-238-183-60	Sequence 60, Appl
36	89.5	15.5	156	9	US-10-238-283-60	Sequence 60, Appl
37	89.5	15.5	156	9	US-10-238-370-60	Sequence 60, Appl
38	89.5	15.5	156	9	US-10-245-055-60	Sequence 60, Appl
39	89.5	15.5	156	9	US-10-245-147-60	Sequence 60, Appl
40	89.5	15.5	156	9	US-10-245-730-60	Sequence 60, Appl
41	89.5	15.5	156	9	US-10-245-739-60	Sequence 60, Appl
42	89.5	15.5	156	9	US-10-246-210-60	Sequence 60, Appl
43	89.5	15.5	156	9	US-10-233-156-60	Sequence 60, Appl
44	89.5	15.5	156	9	US-10-243-024-60	Sequence 60, Appl
45	89.5	15.5	156	9	US-10-243-409-60	Sequence 60, Appl

## ALIGNMENTS

## RESULT 1

US-09-948-391A-6  
Sequence 6, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by the Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 6  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant  
OTHER INFORMATION: Met(-1) RapLr1)  
US-09-948-391A-6

Query Match 100.0% Score 578: DB 9: Length 105:  
Best Local Similarity 100.0% Pred. No. 1.3e-56;  
Matches 104: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNRDVCNNTMSYFLHCKDKNTFIYSRPPYAKIGIAAKNVLT 60  
Db 2 QDWLTFQKKHLTNRDVCNNTMSYFLHCKDKNTFIYSRPPYAKIGIAAKNVLT 61  
Qy 61 SEFYLSDCNVTSRPPCKYKLSKSTNFCVYCEQAPVHFVGCHC 104  
|||||

Db 62 SEFYISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 105

## RESULT 2

US-09-948-391A-28

Sequence 28, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948, 391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079, 751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622, 613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 28

LENGTH: 127

TYPE: PRT

ORGANISM: Rana pipiens

FEATURE:

OTHER INFORMATION: Rana pipiens ribonuclease (RaplR1) Clone 5a1b cDNA

US-09-948-391A-28

Query Match 100.0%: Score 578; DB 9; Length 127;

Best Local Similarity 100.0%: Pred. No. 1.6e-56;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 61 SEFYISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 104

Db 84 SEFYISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 127

RESULT 3

US-09-948-391A-11

Sequence 11, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948, 391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079, 751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622, 613

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens

OTHER INFORMATION: ribonuclease with Glutiser substitution

OTHER INFORMATION: (recombinant RaplR1 Q1S)

US-09-948-391A-11

Query Match 99.1%: Score 573; DB 9; Length 104;

Best Local Similarity 100.0%: Pred. No. 4.5e-56;

Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 62 EFWISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 104

Db 62 EFWISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 104

RESULT 4

US-09-948-391A-13

Sequence 13, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948, 391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079, 751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622, 613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 13

LENGTH: 105

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens

OTHER INFORMATION: ribonuclease with Met at position 1 and Glutiser

OTHER INFORMATION: substitution (recombinant Met(-1) RaplR1 Q1S)

US-09-948-391A-13

Query Match 99.1%: Score 573; DB 9; Length 105;

Best Local Similarity 100.0%: Pred. No. 4.5e-56;

Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 2 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYISRPPEVKAICGIIASKNVLTTS 61

Db 3 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYISRPPEVKAICGIIASKNVLTTS 61

Db 62 EFWISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 104

Db 63 EFWISDCNVTSPCKYKLLKSKSTNFCVTCENQAPVHFVGHC 105

RESULT 5

US-09-948-391A-2

Sequence 2, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

APPLICANT: Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Rana pipiens  
FEATURE:  
OTHER INFORMATION: ribonuclease (RAPLR1)  
US-09-948-391A-2

Query Match 98.4% Score 569; DB 9; Length 104;  
Best Local Similarity 99.0%; Pred. No. 1.2e-55;  
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
Db 1 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
QY 61 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 104  
Db 61 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 104

RESULT 6  
US-09-948-391A-4  
Sequence 4, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanne M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met23Leu substitution  
OTHER INFORMATION: (recombinant RAPLR1 Met23Leu)  
US-09-948-391A-4

Query Match 98.4% Score 569; DB 9; Length 104;  
Best Local Similarity 98.1%; Pred. No. 1.2e-55;  
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
Db 1 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60

QY 61 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 104  
Db 61 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 104

RESULT 7  
US-09-948-391A-8  
Sequence 8, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanne M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu  
OTHER INFORMATION: substitution (recombinant Met(-1) RAPLR1 Met23Leu)  
US-09-948-391A-8

Query Match 96.9% Score 560; DB 9; Length 105;  
Best Local Similarity 97.1%; Pred. No. 1.2e-54;  
Matches 101; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 60  
Db 2 0DMLTFOKKHLTNRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICGIIASKNVLT 61  
QY 61 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 104  
Db 62 SEFLSDCNVTSRCKKYLKSKSTNFTCVTCENQAPVHFVGSHC 105

RESULT 8  
US-09-948-391A-9  
Sequence 9, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanne M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9  
 LENGTH: 111  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
 OTHER INFORMATION: ribonuclease with (His)6 tag, Met at position 7  
 OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1)  
 OTHER INFORMATION: RAPLRI Met23Leu-(His)6  
 US-09-948-391A-9

Query Match 96.9%; Score 560; DB 9; Length 111;  
 Best Local Similarity 97.1%; Pred. No. 1.3e-54;  
 Matches 101; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 60  
 DB 8 QDWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 67  
 QY 61 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 104  
 DB 68 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 111

RESULT 9  
 US-10-153-882-2  
 Sequence 2, Application US/10153882  
 Publication No. US20030099629A1  
 GENERAL INFORMATION:  
 APPLICANT: GOLDENBERG, David M.  
 APPLICANT: HANSEN, Hans  
 APPLICANT: LEUNG, Shui-on  
 TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND  
 TITLE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCONASE  
 FILE REFERENCE: 018733/0913  
 CURRENT APPLICATION NUMBER: US/10/153,882  
 CURRENT FILING DATE: 2002-05-24  
 PRIOR APPLICATION NUMBER: US/09/265,901  
 PRIOR FILING DATE: 1999-03-11  
 PRIOR APPLICATION NUMBER: US 60/077,557  
 PRIOR FILING DATE: 1998-03-11  
 NUMBER OF SEQ ID NOS: 12  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 2  
 LENGTH: 105  
 TYPE: PRT  
 ORGANISM: Rana pipiens  
 US-10-153-882-2

Query Match 96.2%; Score 556; DB 9; Length 105;  
 Best Local Similarity 96.2%; Pred. No. 3.4e-54;  
 Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 60  
 DB 2 QDWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 61  
 QY 61 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 104  
 DB 62 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 105

RESULT 10  
 US-09-986-119-1  
 Sequence 1, Application US/09986119  
 Publication No. US20020187153A1  
 GENERAL INFORMATION:  
 APPLICANT: Rybak, Susanna M.  
 APPLICANT: Newton, Dianne L.  
 APPLICANT: Goldenberg, David M.  
 TITLE OF INVENTION: Immunotoxins Directed Against Malignant  
 Cells  
 NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/986,119  
 FILING DATE: 07-MAY-1997  
 CLASSIFICATION: <unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/09/071,672  
 FILING DATE: 01-MAY-1998  
 APPLICATION NUMBER: US 60/046,895  
 FILING DATE: 02-MAY-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Weber, Ellen Lauver  
 REGISTRATION NUMBER: 32,762  
 REFERENCE/DOCKET NUMBER: 015280-32510US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 104 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: <unknown>  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FEATURE:  
 NAME/KEY: Modified-site  
 LOCATION: 1  
 OTHER INFORMATION: /product= "OTHER"  
 /note= "Xaa = Glu or pyroglutamic acid"  
 FEATURE:  
 NAME/KEY: Protein  
 LOCATION: 1..104  
 OTHER INFORMATION: /note= "RNase A derived from  
 Rana pipiens, "onc protein."  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-09-986-119-1

Query Match 95.3%; Score 551; DB 9; Length 104;  
 Best Local Similarity 96.1%; Pred. No. 1.2e-53;  
 Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 DWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 61  
 DB 2 DWLTFQKKHLTNTDVCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIITASKNVLT 61  
 QY 62 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 104  
 DB 62 SEFYISDCNVTSRPCKYKLRKSTNTFCVTCENQAPVHFGVGHG 104

RESULT 11  
 US-09-986-119-3  
 Sequence 3, Application US/09986119  
 Publication No. US20020187153A1  
 GENERAL INFORMATION:  
 APPLICANT: Rybak, Susanna M.  
 APPLICANT: Newton, Dianne L.  
 APPLICANT: Goldenberg, David M.  
 TITLE OF INVENTION: Immunotoxins Directed Against Malignant  
 Cells  
 NUMBER OF SEQUENCES: 3  
 CORRESPONDENCE ADDRESS:

```

ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986_119
FILING DATE: 07-NO. US20020187153A1-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/071_672
FILING DATE: 01-MAY-1998
APPLICATION NUMBER: US 60/046,895
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 015280-32510US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 83 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..83
OTHER INFORMATION: /note= "onc protein", positions 16-98
of SEQ ID NO:1"
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-986-119-3

Query Match      77.0% Score 445; DB 9; Length 83;
Best Local Similarity 97.6%; Pred. NO. 4.9e-42;
Matches 81: Conservative 1; Mismatches 1; Indels 0; Gaps 0.

QY          16 DVDCCNNINSTLFLFKCKDKNTFYSPRPVKAIKGIISKNVLTTSSEFYLSDCNTSRPC 75
            |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db          1 DVDCCDNIMSTLFLFKCKDKNFTIYSRPEVKAICKGIIASKNYLTTSEFYLSDCNVTSRPC 60
            |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY          76 KYKLKSKTNEFCVTGCENQAPVHF 98
            |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db          61 KYKLKSKTNKRCVTCENQAPVHF 83
            |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

RESULT 12
US-09-948-391A-15
Sequence 15, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948_391A
CURRENT FILING DATE: 2002-05-10
PRIORITY APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
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      PRIOR APPLICATION NUMBER: US 09/622,613
      PRIOR FILING DATE: 2000-08-17
      NUMBER OF SEQ ID NOS: 43
      SOFTWARE: PatentIn Ver. 2.0
      SEQ ID NO 15
      LENGTH: 110
      TYPE: PRT
      ORGANISM: Artificial Sequence
      FEATURE:
      OTHER INFORMATION: Description of Artificial Sequence:Rana
      OTHER INFORMATION: catesbeiana oocyte ribonuclease (RACOR1) synthetic
      OTHER INFORMATION: gene modified to use E. coli preferred codons
US-09-948-391A-15

Query Match                      48.7%; Score 281.5; DB 9; Length 110;
Best Local Similarity          49.5%; Pred. No. 8.4e+24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Oy    1 ODMLTPOKKHLTNRDVCNNIMSTNLF---HCKDKMTFTYSRPEPKAICKGIASKN 56
       |||::|||::|| ::|||::|| ::|||::|||::|||::|||::|||::|||::|||
Db     1 QNMATFOOKHLINT-PIICNTILDNNIYVGGOCKRVMTFFISSATTVAKACTGVI-NMN 58
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

Oy    57 VLTISEFPLSC---NWTSRPCXYKLKSKSTNFCVTGCENQAPVHFVGHC 104
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db     59 VLSTTRPOLNCTRTSTIRPRCPYSSKRETNYICVKCENOIPVFAGIGRC 109
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

RESULT 13
US-09-948-391A-21
Sequence 21, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,
OTHER INFORMATION: Met23Leu and Met58Leu substitutions (recombinant
OTHER INFORMATION: Met(-1) RacOR1 Met23Leu Met57Leu)
US-09-948-391A-21

Query Match                      48.0%; Score 277.5; DB 9; Length 111;
Best Local Similarity          48.6%; Pred. No. 2.3e+23;
Matches 54; Conservative 16; Mismatches 32; Indels 9; Gaps 4;

Oy    1 ODMLTPOKKHLTNRDVCCNNIMSTNFL---HCKDKMTFTYSRPEPKAICKGIASKN 56
       |||::|||::||| ::|||::|| ::|||::|||::|||::|||::|||::|||::|||
Db     2 QNMATFOOKHLINT-PIICNTILDNNIYVGGOCKRVMTFFISSATTVAKACTGVI-NLN 59
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

Oy    57 VLTISEFPLSC---NWTSRPCXYKLKSKSTNFCVTGCENQAPVHFVGHC 104
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db     60 VLSTTRPOLNCTRTSTIRPRCPYSSKRETNYICVKCENOIPVFAGIGRC 110
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

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RESULT 14
US-09-948-391A-22
Sequence 22, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanne M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor
Rnase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 117
TYPE: prt
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence::Rana
OTHER INFORMATION: cathepsinB ribonuclease with (His)6 tag, Met at
OTHER INFORMATION: position 7, Met23Leu and Met58Ileu substitutions
OTHER INFORMATION: (recombinant Met(-1) RacOrl Met22Leu Met57Leu-(His)6)
US-09-948-391A-22

Query Match      48.0%; Score 277.5; DB 9; Length 117;
Best Local Similarity 48.6%; Pred. No. 2.5e-23;
Matches 54; Conservative 16; Mismatches 32; Indels 9; Gaps 4.;

QY      1 QDWLTFQKHILTRDVCNNINSTNLF---HCKDKNTFYSRPEPKAICGIIASKN 56
          | : | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      8 QNWATFPOOKHIINT-PITCNTILLNNITYIVGGQCKRVMTFTISSATXKAICTGYI-MLN 65
          | : | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      57 VLTSSEFLSDSC---NWTSPRCXYKKLKSTTFCVTCENQAPVHFVGCGHC 104
          ||| : | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      66 VLSSTRPOLNCTRTSTTPPCPYSSKRTETNYICVKCENQYPVHPAGIGRC 116
          ||| : | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 15
US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanne M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor
Rnase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 110
TYPE: prt
ORGANISM: Artificial Sequence
FEATURE:
```

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; OTHER INFORMATION: Description of Artificial Sequence:Rana
; OTHER INFORMATION: catesbeiana ribonuclease with GlnSer substitution
; OTHER INFORMATION: (recombinant RecOR1 Q15)
us-09-948-391A-24

Query Match          47.8%  Score 276.5, DB 9; Length 110;
Best Local Similarity 49.1%, Pred. No. 3e-23; Indels 9; Gaps 4
Matches 54; Conservative 15; Mismatches 32;

QY 2 DMLTFQKKHLLNTRDVCNNINISTNLF---HCKDKNTFIYSRPEVPAKICGIIASKNV 57
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 2 NMATFQOKHIIINT-PIICNTIMDNNIYIVGCGCKRVTNFIISATVAKICGTGI-NMNV 59
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 58 LTTSEFYISDC---NVTSRPCKYKLRKTSNTNFCVCSEQAPRNFHGVGVHC 104
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 60 LSTRFQIANTCTRTSITPRCPYSSRTFTNTICVACSEQDYPVNFHFGICIRC 109
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Search completed: June 25, 2003, 15:42:13
Job time : 17.5271 secs

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